

## ABSTRACT OF THE DISCLOSURE

### Device and method for frequency synthesis with high spectral purity

Disclosed is a method and device to synthesize a frequency  $F1 \rightarrow F2$  with high spectral purity. The device comprises a variable-step synthesizer  $F3 \rightarrow F4$  comprising at least one variable-rank divider  $N_b$  located after said synthesizer and a frequency control device delivering the division rank command of the variable-rank divider, the command of the frequency of the variable-step synthesizer and the command of the synthesis step of the variable-step synthesizer.

Figure 3 to be published